

ABSTRACT

The present invention is intended to provide a glass article with a metal member joined thereto in which an electroconductive coating film is formed on at least a part of the surface of the glass article by baking a silver paste that includes Ag particles and a glass frit, a joining plane of the metal member is fixed onto the electroconductive coating film with a lead-free solder alloy containing Sn as a main component, and the lead-free solder alloy contains at least 1.5 mass% of Ag, which prevents the appearance of the electroconductive coating film and the bonding strength from degrading. Furthermore, in the present invention, when using a metal member having at least two joining planes, the total area of the joining planes is set within a range of 37 mm² to 50 mm², which allows high bonding strength between the glass article and metal member to be maintained while using the lead-free solder alloy. Moreover, in the present invention, the volume of the lead-free solder alloy to be provided on each joining plane is set to be 1.0 to 2.0 times the product of the area of the joining plane concerned and the thickness of the lead-free solder alloy, which prevents cracks from occurring in the glass article.